Amol Ramesh Mane

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Objective:

Aspiring Software Developer skilled in C, C++, and Java with strong foundations in OS internals, data structures, and full-stack development. Seeking opportunities to apply my technical expertise in building scalable and efficient software solutions.

Educational Qualification:

Standard	Institute	Percentage	Class
B.Tech	Dr.BATU, Lonere, Raigad	CGPA:7.29	First Division
HSC	Dayanand Science College, Latur	71.67 %	First Division
SSC	Deshikendra High School, Latur	94.40 %	Distinction

Professional Summary

• Experienced in application development using C, C++, Java.

• Hands-on expertise in **Linux System Programming** using C & C++, with exposure to low-level concepts like **Kernel Modules.**

• Proficient in **algorithm design and optimization**, ensuring efficient and scalable Solutions.

• Knowledgeable in **server-side web development** using Java (Spring Boot).

• Strong understanding of **Operating System internals**, system-level concepts & performance tuning.

• Designed and implemented **7+ industry-oriented projects**, including full-stack, cryptography, and reusable libraries.

• Gained hands-on experience in **RESTful API development, database integration, and cross-platform programming.**

• Practical expertise in **encryption & system-level security** through projects like Secure File Transfer Simulation.

• Experienced in building both **console-based and GUI-based applications** to enhance user interaction.

• Familiar with **Agile, Waterfall, Incremental SDLC methodologies**, delivering structured and timely solutions.

• Active contributor on **GitHub** with well-documented repositories showcasing projects.

• **Strong analytical and problem-solving** skills with ability to quickly learn, adapt, and mentor peers in programming and project development.

• Experienced in writing **Shell Scripts**.

• Knowledge of **Swing & AWT API** integration implementation in java.

Technical Skills:

Programming Languages:

- **Procedural Language:** C
- **Object Oriented Programming:** C++
- **Virtual Machine based Programming:** Java

Web Technologies: HTML/HTML5, CSS2/CSS3
IDE & Tools: Visual Studio Code, Visual Studio
Web Servers: Apache Tomcat 8.0.22
Version Control: GIT & GitHub
Database: SQL (oracle), MySQL, MongoDB (NoSQL)
Operating System: Windows NT, Linux Distributions
Testing Techniques: Unit Testing
Methodologies: Agile, Incremental, Waterfall
Others: Shell Scripting

Technical Projects:
1. Virtual File System (VFS)
Technology: C Programming, OS Internals

🔗 GitHub Repository: https://github.com/AmolMane30/Customized_Virtual_File_System

- Simulated Linux-like file system operations with a custom shell.
- Implemented system calls (open, read, wirte, lseek, delete).
- Gained hands-on understanding of inodes, file tables, and OS design.

2. Generalized Data Structures Library
Technology: C++

🔗 GitHub Repository: https://github.com/AmolMane30/Generalized_Data_Structures_Library

- Developed a reusable library of linear & non-linear data structures.
- Implemented stacks, queues, linked lists, BST, searching & sorting.
- Designed using templates for data type independence.

3. Chat-Bird Messenger with Log Facility
Technology: Java, Socket Programming, Swing, AWT

🔗 GitHub Repository: https://github.com/AmolMane30/ChatBird-Messenger

- Implemented a peer-to-peer chat system with real-time messaging.
- Maintained chat logs with timestamps for future reference.
- Applied TCP/IP socket programming concepts.

4. File Packer Unpacker
Technology: Java

🔗 GitHub Repository: https://github.com/AmolMane30/File_Packer_Unpacker
- Built a file archiving utility with integrated encryption/decryption.
- Implemented metadata preservation during packing/unpacking.
- Designed GUI using Swing for user-friendly interaction.

5. Customized Database Management System
Technology: Java

🔗 GitHub Repository: https://github.com/AmolMane30/Customized_Database_Management_System
- Implemented a Database Management System without using actual DBMS.
- Implemented Java's Collections Framework.
- Persist data between program runs using Serialization and Deserialization.

Extras: Solved 100+ coding problems across CodeChef ,GFG ,LeetCode.

Typing speed : 60+ WPM.

Profiles
- **GitHub:** github.com/AmolMane30
- **LinkedIn:** linkedin.com/in/amolmane30/
- **Portfolio:** https://amolmane30.github.io/Amol_Portfolio/

The above-mentioned information is authentic to the best of my knowledge.

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